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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,144	07/13/2005	Juan Ramella	P70596US0	9818
156 7550 JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004			EXAMINER	
			WIEST, PHILIP R	
			ART UNIT	PAPER NUMBER
			3761	
			MAIL DATE	DELIVERY MODE
			09/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/542 144 RAMELLA, JUAN Office Action Summary Examiner Art Unit Phil Wiest 3761 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 6/24/08. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 4-21 is/are pending in the application. 4a) Of the above claim(s) 12-15 is/are withdrawn from consideration. 5) Claim(s) 21 is/are allowed. 6) Claim(s) 1.2.4.6-8.10.11 and 17-20 is/are rejected. 7) Claim(s) 5.9 and 16 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 23 April 2007 is/are; a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______

Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 6, 7, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rochat (US 5,269,924) in view of Laffay (FR 2,766,797).

1. With respect to Claims 1 and 2 Rochat discloses a filtering apparatus 10 comprising two outer sheets and a flexible inner sheet 12 that divides the interior of the bag into a first chamber 13 and second 14 chamber (see Figure 1). The inner sheet comprises a screen that extends to the distal end (bottom end) of the bag). The two outer sheets and inner sheet are water-tightly joined at a periphery of the bag. A circular access bushing (21, 15, 16) is placed in fluid communication with the chambers such that it provides an inlet line into the first chamber and a discharge line in communication with the second chamber (see Figure 1). Rochat further discloses that the entire outer wall of the bag is watertight (Column 2, Lines 47-63). Rochat, however, does not disclose that the bushing is affixed on the side wall of the bag via a first and second aperture in the inner sheet and one of the outer sheets, nor does Rochat

specifically disclose that powdered solute is disposed in the chamber, such that the bag is capable of preparing a dialysis solution.

Laffay discloses a medical bag for the preparation of dialysis solution comprising a bushing 8 built directly into the side of the bag. The bushing comprises first and second flow paths. Fluid enters the chamber through the first flow pat 22, where it is combined with powdered dialysis solution. The fluid mixes with the powder, forming dialysis fluid, and is removed from the chamber through the outlet tube 26. The outlet tube comprises a filtration element at its entrance, such that powder does not exit the bag. The bag, therefore, functions in the same manner as claimed by applicant. It would have been obvious to one skilled in the art at the time of invention to modify the filtering apparatus of Rochat with Laffay's dual-lumen bushing and use of a filter to block the flow of powdered solute in order to create a dialysis fluid. Rochat clearly discloses the structure of the claimed device, and the use of said structure to perform the same function as taught by Laffay is does not constitute a patentable improvement over the prior art. Regarding the placement of the bushing, Laffay and Rochat both disclose bushings which are annular on the plane which projects toward the bag. The repositioning of the bushing to the side of the bag, such that an aperture would be created in the sheets provides the same functionality as the device of Rochat, and the repositioning of the bushing to the side of the bag (as taught by Laffay) would have an obvious rearrangement to one of ordinary skill in the art in view of the prior art. See MPEP § 2144.04.

With respect to Claims 6, 7, and 11, Laffay clearly suggests the placement of an annular bushing with a fluid-tight fitting on the side of the bag, said bushing having two flow paths. It would have been obvious to one of ordinary skill in the art at the time of invention to rearrange the bushing of Laffay such that the second tube is a radial tube because doing so does not provide any additional functionality over the prior art. The bushing system of Laffay is fully capable of functioning identically to the claimed bushing.

- Claims 4, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rochat in view of Laffay, further in view of Mathieu (US 5,616,305).
- 3. With respect to Claim 4, Rochat and Laffay disclose the blood bag of Claim 1 (see above rejection). Rochat and Laffay, however, do not disclose that the powdered solute is sodium bicarbonate. Mathieu discloses a hemodialysis packaging unit comprising a layer of sodium bicarbonate powder 74 (Column 9, Lines 47-55). The use of sodium bicarbonate for dialysis treatment of blood is established in the art, especially when used in conjunction with powdered dialysis solution. Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the system of Rochat and Laffay with the layer of sodium bicarbonate of Mathieu in order to allow for a well-established means of creating dialysis fluid for treatment of the blood.

 Furthermore, Laffay teaches the placement of the layer of powdered solute before the filtering layer 28 in order to prevent undissolved particles from leaving the bag.

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Therefore, it would have been obvious to place the sodium bicarbonate before the filter (i.e. in the first chamber) of the device of Rochat.

- 4. With respect to Claim 10, Rochat discloses that the inner, screen-like sheet comprised a mesh filter 12 with openings between 100 and 1000 microns that is capable of retaining an undissolved powder solute (Column 2, Lines 40-47).
- 5. Claims 8 and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rochat in view of Laffay, and further in view of Verkaart et al. (US 2002/0030002). Rochat discloses the bicompartment bag comprising a first and second flexible outer sheet, a flexible inner sheet 12 dividing the bag into a first and second chamber and having a perforated filter portion at the bottom of the bag. The inner and outer sheets are water-tightly sealed at the peripheries such that no leaks occur. Rochat further discloses a bushing (21, 15, 16) having a first and second flow channel therein to provide fluid communication between the first and second chambers. The bushing (21, 15, 16) comprises a plurality of cover members (17, 22) that create an air-tight seal around the bag. Rochat, however, does not disclose that the bushing is disposed on a side wall of the bag via a first and second aperture in the inner sheet and one of the outer sheets, nor does Rochat disclose a cover for sealing the entrance to the flow channels.

Laffay discloses a medical bag for the preparation of dialysis solution comprising a bushing 8 built directly into the side of the bag. The bushing comprises first and second flow paths. Fluid enters the chamber through the first flow pat 22, where it is

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combined with powdered dialysis solution. The fluid mixes with the powder, forming dialysis fluid, and is removed from the chamber through the outlet tube 26. The outlet tube comprises a filtration element at its entrance, such that powder does not exit the bag. The bag, therefore, functions in the same manner as claimed by applicant. It would have been obvious to one skilled in the art at the time of invention to modify the filtering apparatus of Rochat with Laffay's dual-lumen bushing and use of a filter to block the flow of powdered solute in order to create a dialysis fluid. Rochat clearly discloses the structure of the claimed device, and the use of said structure to perform the same function as taught by Laffay is does not constitute a patentable improvement over the prior art. Regarding the placement of the bushing, Laffay and Rochat both disclose bushings which are annular on the plane which projects toward the bag. The repositioning of the bushing to the side of the bag, such that an aperture would be created in the sheets provides the same functionality as the device of Rochat, and the repositioning of the bushing to the side of the bag (as taught by Laffay) would have an obvious rearrangement to one of ordinary skill in the art in view of the prior art. See MPEP § 2144.04.

Regarding the orientation of the Bushing, Laffay clearly suggests the placement of an annular bushing on the side of the bag, said bushing having two flow paths. It would have been obvious to one of ordinary skill in the art at the time of invention to rearrange the bushing of Laffay such that the second tube is a extends radially from the central flow path because doing so does not provide any additional functionality over the

prior art. Because Laffay discloses two separate flow tubes extending from the bushing, the bushing of Laffay is fully capable of functioning identically to the claimed bushing.

Vekaart et al. discloses a filter bag system comprising a fluid inlet and a fluid outlet. The fluid outlet comprises a removable cover portion 226 that acts as a sealing valve, said valve being openable to provide fluid communication through the channel [0022]. The removable cover 226 prevents the contamination of the fluid line by external air prior attaching a conduit, thereby reducing the risk of infection of the blood. The step of providing a sealing means to the ends of a conduit to prevent contamination is well established in the art of medical fluid containers. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the device of Rochat in view of Laffay with the tube sealing means of Vekaart et al. in order to prevent fluids from entering the tube before it is connected to a blood source, thereby preventing infection.

Allowable Subject Matter

Claim 21 is allowed.

Claims 5, 9, and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

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The prior art teaches blood bag of Claim 1, but does not teach the layer attached to the second chamber and made from a woven or injected material, or the use of a valve comprising a thin sheet having a section having lesser strength lines that open and close the valve. Verkaart teaches the use of a valve, but none of the prior art teaches a thin sheet disposed in the second chamber that acts as a valve.

Response to Arguments

- 7. Applicant's arguments filed 6/24/08 have been fully considered but they are not persuasive. Applicant argues that the cited prior art does not teach the device as claimed, and that there is not sufficient motivation to combine the references.
- 8. Applicant's argues that Rochat and Laffay do not teach a flexible inner sheet having a screen portion located at a distal end thereof at a bottom portion of the bag. Applicant further argues that this means that the screen portion may not extend to the proximal end of the inner sheet. This argument has not been found persuasive. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). In this case, the claims merely state that the inner sheet has a screen portion at the distal/bottom end. The claims do not preclude the screen from extending to the top of the bag.
- 9. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention

where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, The Laffay reference is merely used to illustrate that providing a bushing in the side of a medical bag is well known in the art. The repositioning of the bushing of Rochat onto the side of the bag, such that the aperture in the sheets would be created in the side rather than the top of the bag, would have been an obvious rearrangement of parts to one of ordinary skill in the art at the time of invention.

10. Finally, applicant argues that there is no motivation to use the device of Rochat to create a dialysis fluid. This argument has not been found persuasive. The device of Rochat is structurally similar to the claimed device, and Laffay and Mathieu clearly disclose the use of a filter to prevent undissolved solute powder from passing through the system. Given the teachings of Mathieu and Laffay, it is the examiner's opinion that one of ordinary skill in the art would have been motivated to use to filter bag of Rochat to create dialysis fluid.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phil Wiest whose telephone number is (571)272-3235. The examiner can normally be reached on 8:30am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on (571) 272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Phil Wiest/ Examiner, Art Unit 3761

//Leslie R. Deak// Primary Examiner, Art Unit 3761 18 September 2008